

Table 5.2 Facility Net Emissions Increase for Each Emission Unit Category

ID #	EMISSION UNIT /EM. ACTIVITY	NOx Increase		VOC Increase		CO Increase		SOx Increase		PM10 Increase	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
	<u>I. C. Engine</u>										
#2 - #8	PTO 7500-03	0	0	0	0	0	0	0	0	0	0
#9	PTO 9075	0		0		0.02		0		0.08	
15A -	PTO 8946-01	0	0	0	0	0	0	0	0	0	0
18A											
1A-3A,											
6A-11A,	PTO 9162	0		0		0.02		0		0.08	
20A											
4A,5A,	PTO 8008	0	0	0	0	0	0	0	0	0	0
14A,19A											
	ICE Total:	0	0	0	0	0.04	0	0	0	0.16	0
	<u>Dehydr./Stor./Meter. Eqpt.</u>										
#1 - #47	PTO 8166	0	0	0.88	3.87	0	0	0	0	0	0
	(PTO 9128)										
	DeHy Total:	0	0	0.88	3.87	0	0	0	0	0	0
	<u>Ext. Comb. Eqpt.- Boiler</u>										
#'s 1, 2	PTO 9275	0		0		0		0		0	
	Boiler Total:	0		0		0		0		0	
	<u>Ext.Comb. Eqpt.-Therm.Oxidizer</u>										
#'s 3-5	PTO 9275	0	0	0	0	0	0	0	0	0	0
	Th.Oxid. Total:	0	0	0	0	0	0	0	0	0	0
	<u>Gas Station</u>										
#1 - #4	PTO 6819	0	0	0	0	0	0	0	0	0	0
	Gas Stn. Total:	0	0	0	0	0	0	0	0	0	0
	Plant TOTAL:	0	0	0.88	3.87	0.08	0	0	0	0.32	0
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Table 5.3 Total Permitted Emissions from the Equipment

ID #	EMISSION UNIT /EM. ACTIVITY	NOx Limits		VOC Limits		CO Limits		SOx Limits		PM10 Limits	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
	<u>I. C. Engine</u>										
#2 - #8	PTO 7500-03	16.59	63.35	16.38	62.58	194.67	745.15	0.63	2.52	0.49	1.89
#9	PTO 9075	4.56	19.97	24.8	108.65	99.93	437.69	0.02	0.08	0.46	2
15A -	PTO 8946-01	2.97	12.97	0.84	3.72	5.68	24.83	0.004	0.02	0.02	0.08
18A											
1A-3A,											
6A-11A,	PTO 9162	2.16	9.43	9.74	42.6	118.04	517.03	0.02	0.1	0.11	0.46
20A											
4A,5A,	PTO 8008	3.44	9.56	0.52	1.44	0.74	2.06	0.02	0.05	0.02	0.05
14A,19A											
	ICE Total:	29.72	115.28	52.28	218.99	419.06	1726.76	0.694	2.77	1.1	4.48
	<u>Dehydr./Stor./Meter. Eqpt.</u>										
#1 - #47	PTO 8166			3.97	17.38						
	DeHy Total:			3.97	17.38						
	<u>Ext. Comb. Eqpt.- Boiler</u>										
#'s 1, 2	PTO 9275	1	0.88	0.06	0.04	0.22	0.18	0.12	0.12	0.12	0.1
	Boiler Total:	1	0.88	0.06	0.04	0.22	0.18	0.12	0.12	0.12	0.1
	<u>Ext.Comb. Eqpt.-Therm.Oxidizer</u>										
#'s 3-5	PTO 9275	0.48	1.65	0.03	0.09	0.09	0.33	2.52	0.21	0.03	0.09
	Th.Oxid. Total:	0.48	1.65	0.03	0.09	0.09	0.33	2.52	0.21	0.03	0.09
	<u>Gas Station</u>										
#1 - #4	PTO 6819			3.81	0.04						
	Gas Stn. Total:			3.81	0.04						
	Plant TOTAL:	31.2	117.81	60.15	236.54	419.37	1727.31	3.334	3.1	1.25	4.67

Table 5.4 Exempt Equipment Emissions

ID #	EMISSION UNIT /EM. ACTIVITY	NOx Emissions		VOC Emissions		CO Emissions		SOx Emissions		PM10 Emissions	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
	<u>I. C. Engine</u>										
Device	Fire-water Pumps:										
32	166 hp Diesel ICE	4.58	0.46	0.36	0.04	0.96	0.1	0.05	0.01	0.3	0.03
	166 hp Diesel ICE	4.58	0.46	0.36	0.04	0.96	0.1	0.05	0.01	0.3	0.03
	160 hp gas ICE	3.52	0.35	0.05	<0.01	3.04	0.3	<0.01	<0.01	<0.01	<0.01
	ICE Total:	12.68	1.27	0.77	0.08	4.96	0.5	0.1	0.02	0.6	0.06
	<u>Dehydr./Stor./Meter. Eqpt.</u>										
Device	Diesel storage	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Tank										
	Glycol Storage	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Tank										
	Safe-T-Kleen Unit	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	DeHy Total:	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Plant TOTAL:	12.68	1.27	0.77	0.08	4.96	0.5	0.1	0.02	0.6	0.06
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Table 5.5 Federal Potential to Emit

ID #	EMISSION UNIT /EM. ACTIVITY	NOx Limits		VOC Limits		CO Limits		SOx Limits		PM10 Limits	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
	<u>I. C. Engine</u>										
#2 - #8	PTO 7500-03	16.59	63.35	16.38	62.58	194.67	745.15	0.63	2.52	0.49	1.89
#9	PTO 9075	4.56	19.97	24.8	108.65	99.93	437.69	0.02	0.08	0.46	2
15A - 18A	PTO 8946-01	2.97	12.97	0.84	3.72	5.68	24.83	0.004	0.02	0.02	0.08
1A-3A, 6A-11A, 20A	PTO 9162	2.16	9.43	9.74	42.6	118.04	517.03	0.02	0.1	0.11	0.46
4A,5A, 14A,19A	PTO 8008	3.44	9.56	0.52	1.44	0.74	2.06	0.02	0.05	0.02	0.05
Dev. 32	Exempt ICE's	12.68	1.27	0.77	0.08	4.96	0.5	0.1	0.02	0.6	0.06
	ICE Total:	42.4	116.55	53.05	219.07	424.02	1727.26	0.794	2.79	1.7	4.54
	<u>Dehydr./Stor./Meter. Eqpt.</u>										
#1 - #47	PTO 8166			0	0						
	DeHy Total:			0	0						
	<u>Ext. Comb. Eqpt.- Boiler</u>										
#'s 1, 2	PTO 9275	1	0.88	0.06	0.04	0.22	0.18	0.12	0.12	0.12	0.1
	Boiler Total:	1	0.88	0.06	0.04	0.22	0.18	0.12	0.12	0.12	0.1
	<u>Ext.Comb. Eqpt.-Therm.Oxidizer</u>										
#'s 3-5	PTO 9275	0.48	1.65	0.03	0.09	0.09	0.33	2.52	0.21	0.03	0.09
	Th.Oxid. Total:	0.48	1.65	0.03	0.09	0.09	0.33	2.52	0.21	0.03	0.09
	<u>Gas Station</u>										
#1 - #4	PTO 6819			0	0						
	Gas Stn. Total:			0	0						
	0.004	43.88	118.83	53.07	219.2	424.33	1727.51	3.434	3.12	1.85	4.73
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List of Equipment and Emissions at SoCalGas La Goleta Plant

EQUIPMENT LIST:	Permitted VOC Limit		Permitted SO2 Limit		Permitted NOx Limit		Permitted CO Limit		Permitted PM Limit	
TYPE AND EU	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
1: IC Engines										
#2: 650 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand LVG-82,										
Serial # 8AL126.										
#3: 650 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand LVG-82,										
Serial # 8AL129.										
#4: 650 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand LVG-82,										
Serial # 8AL128.										
#5: 650 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand LVG-82,										
Serial # 8AL127.										
#6: 660 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand KVG-62,										
Serial # 6EL265.										
#7: 660 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand KVG-62,										
Serial # 6EL266.										
#8: 660 hp compressor;	2.34	8.94	0.09	0.36	2.37	9.05	27.81	106.45	0.07	0.27
Ingersoll-Rand KVG-62,										
Serial # 6EL267.										
#9: 1100 hp compressor;	24.8	108.65	0.02	0.08	4.56	19.97	99.93	437.69	0.46	2
Cpr.-Bess. GMV-10C.										
#16A: 48 hp cooling fan	0.42	1.83	0.004	0.004	0.09	0.4	5.05	22.13	0.004	0.02
Waukesha VRG 220U.										
#15A: 48 hp cooling fan	0.14	0.63	0.004	0.004	0.96	4.19	0.21	0.9	0.004	0.02
Waukesha VRG 220U.										
#17A: 48 hp cooling fan	0.14	0.63	0.004	0.004	0.96	4.19	0.21	0.9	0.004	0.02
Waukesha VRG 220U.										
#18A: 48 hp cooling fan	0.14	0.63	0.004	0.004	0.96	4.19	0.21	0.9	0.004	0.02
Waukesha VRG 220U.										
#1A: 170 hp elec.gener.	1.56	6.8	0.004	0.02	0.34	1.51	18.83	82.49	0.02	0.07
Waukesha 6-WAK-79A.										
#2A: 170 hp elec.gener.	1.56	6.8	0.004	0.02	0.34	1.51	18.83	82.49	0.02	0.07
Waukesha 6-WAK-79A.										
#3A: 170 hp elec.gener.	1.56	6.8	0.004	0.02	0.34	1.51	18.83	82.49	0.02	0.07
Waukesha 6-WAK-79A.										
#20A: 144 hp elec.gener	1.34	5.88	0.004	0.01	0.3	1.3	16.29	71.34	0.01	0.06
Waukesha 145 GZU.										
#6A: 74 hp cooling fan;	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										
#7A: 74 hp cooling fan;	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										
#8A: 74 hp cooling fan;	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										
#9A: 74 hp cooling fan;	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										

List of Equipment and Emissions at SoCalGas La Goleta Plant

#10A: 74 hp cooling fan	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										
#11A: 74 hp cooling fan	0.62	2.72	0.004	0.01	0.14	0.6	7.54	33.04	0.01	0.03
Waukesha VRG330U.										
#4A: 48 hp air compress	0.13	0.57	0.01	0.03	0.87	3.8	0.19	0.82	0.004	0.02
Waukesha VRG220U.										
#5A: 48 hp air compress	0.13	0.57	0.01	0.03	0.87	3.8	0.19	0.82	0.004	0.02
Waukesha VRG220U.										
#19A: 24 hp cooling fan	0.06	0.27	0.004	0.004	0.42	1.82	0.09	0.39	0.004	0.01
Waukesha VRG155U.										
#14A 54 hp well pump	0.19	0.02	0.01	0.004	1.29	0.13	0.28	0.03	0.01	0.004
Waukesha 6BZ-2C.										
TOTAL:	52.27	218.98	0.74	2.814	29.73	115.27	419.05	1726.78	1.118	4.474
2: Dehy. Plant 14										
#1: Underground gas storage wells -- 21 in #.										
#2: Gas/glycol contactr, three (3); Braun & Lacy 4.5'dia x 37.8'long; each with a control tank, 16" dia x 15' long.										
#3: Gas/glycol contactor; Braun & Lacy; 4.5'dia x 38.9'long; with a control tank 16"dia x 15'long.										
#4: Glycol/glycol heat exchangers, four (4); Griscom-Russel; each 5.25'tall by 24' long.										
#5: Glycol/steam heat exchangers, two (2); Griscom-Russel; each 4.25'tall by 24' long.										
#6: Glycol rectifier; Southwestern Engg; 25" diameter.										
#7: Vapor condensing coils; Happy Co.; 4'wide by 18'long.										
#8: Accumulator stack, closed and drip pot; Koenig; 0.67' dia x 4'long.										
#9: Glycol particulate filters, two (2); Rol-Pak; each 1.6'dia x 4'long.										
#10: Glycol/gas separator; Southwest Welding; 4'dia x 10.2'long.										
#11: Glycol pumps, five (5); each driven by a 7.5										

List of Equipment and Emissions at SoCalGas La Goleta Plant

hp electric motor.										
#12: Rectifier pumps, two (2), each driven by a 7.5 hp motor.										
#13: High pr. separator, V-100,welded constrtn. vertical, 3'dia x 14.3'tall and connected to gas collection system.										
#14: Sand trap, V-200, welded constrtn., horiz- ontal, 3'dia x 19.8'long and connected to gas collection system.										
#15: Low pr. separator, V-101,welded constrtn. vertical, 3'dia x19.8'long and connected to gas collection system.										
#16: Valves, flanges and other components in liquid & gas services emitting HCs. <i>[Item#39 fug.emissions are also included here]</i>	2.54	11.14								
3: Dehy. Plant 14A										
#17: Gas/glycol entactr, two (2); Braun; 5.9'dia x 35.6'long; with two (2) control tanks, 2dia x15' long and 2'dia x 17'long.										
#18: Glycol/gas separat- or; Southwest Welding, 5.5'dia x 13.6'long.										
#19: Glycol particulate filters, four (4); Butane Tank Corp., 0.75'dia x 4'long.										
#20: Glycol/glycol heat exchanger; Thermal Finned Tube Proc.Inc.; 6.6'tall by 17.5'long										
#21: Glycol/steam superheaters, two (2); Brown; each 10'tall by 21'long.										
#22: Glycol rectifier; Sou'wstrn Engg., 26"dia										
#23: Vapor Condensing										

List of Equipment and Emissions at SoCalGas La Goleta Plant

coils: Air-X-Changer; 0.67'wide by 7.3'long									
#24: Accumulator stack, closed & drip pot; Koe- nig; 0.67'dia x 18'long									
#25: Glycol Pumps, three (3), each driven by a 7.5 hp electric motor.									
#26: Glycol Pump, driv- en by 15 hp elec.motor.									
#27: Rectifier Pumps, two (2), each driven by a 7.5 hp electric motor.									
#28: High pr. separator, V-100A, welded constru- ction, vertical, 3'dia x 14.3'tall; connected to gas collection system.	0.88	3.87							
#29: Sand trap, V-200A, welded constrctn., horiz- ontal, 3'dia x 19.8'long; connected to gas coll- ection system.									
#30: Low pr. separator, V-101A, welded constr- uction, vertical, 3'dia x 14.3'tall; connected to gas collection system.									
<i>[Fug.emissions from items 28-30 and 13-15 are included in emiss- emissions from # 28]</i>									
4. Tank Farm									
#31: Flotation cells, two (2), 10,000 gal. capacity & 12'dia x12' high each.	0.009	0.008							
#32: Hydrocarbon stor. tank,7050 gal.capacity; 10'dia x 12' height.	0.009	0.008							
#33: Brine water tank, 40,600 gal. capacity; 24'dia x 12'height.									
#34: Condensate pump serving storage tanks; 5 hp electric motor drive.									
#35: Grade level loading station to load HC cond- ensate to tanker trucks by motor driven pumps;	0.01	0.06							

List of Equipment and Emissions at SoCalGas La Goleta Plant

not equipped with VRU.									
5. Methanol Stor.Tanks									
#36: Methanol storage tanks, two (2), 500 gal. capacity each, pressurized with NG; w/PRVs.									
#37: Pneumatic Pumps, two (2), serving the methanol tanks.									
6. Other Equipment									
#38: Stack gas vents, for use in pipeline depressurizing operations.									
#39: Pipes, valves and flanges, not associated with other permitted equipment items but emitting fugitive HCs.									
7. Odorant Mtrg. Stn. 14									
#40: Odorant storage tank, one (1); designated as PV544; 2.2'dia x 22' long; 568 gal.; relief valve set @ 15 psig; odorant - Captan 50.									
#41: Odorant storage tank, one (1); designated as PV597; 2.2'dia x13.5' long; 350 gal.; relief valve set @ 125 psig; odorant - Captan 50.									
#42: Odorant run tank, one (1); designated as PV1044C; 22"dia x 4.7' long; 90 gal.; relief valve set @ 495 psig.									
#43: Metering pump, one (1), Morgan; Model HD 562, # 89-348A, compressed air operated.									
8. Odorant Mtrg. Stn. 14A									
#44: Odorant storage tank, one (1); designated									

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as PV503; 3.6'dia x 16'									
long; 1000 gal.; relief									
valve set @ 33 psig;									
odorant - Captan 50.									
#45: Odorant run tank,									
one (1); designated as									
PV610; 16"dia x 4.2'									
long; 43 gal.; relief									
valve set @ 500 psig.									
#46: Metering pump,									
one (1), Morgan; Model									
HD 562, # 89-348B,									
compressed air operated.									
9. Other Equipment at Stn. 14/14A									
#47: Fugitive emission	0.52	2.29							
sources: flanges-6; relief									
valves-5; needle valves-									
27; ball valves-37; plug									
valves-15; threaded									
fittings-811.									
TOTAL:[Dehy Plant]	3.968	17.376							
10. Boilers									
#1: Natural gas-fired	0.03	0.02	0.06	0.06	0.5	0.44	0.11	0.09	0.06
Boiler; Dixon; 5.021									
MMBtu/hr heat input.									
#2: Natural gas-fired	0.03	0.02	0.06	0.06	0.5	0.44	0.11	0.09	0.06
Boiler; Dixon; 5.021									
MMBtu/hr heat input.									
TOTAL:	0.06	0.04	0.12	0.12	1	0.88	0.22	0.18	0.12
									0.1
11. Thermal Oxidizers									
#3: Thermal Oxidizer,	0.01	0.03	0.84	0.07	0.16	0.55	0.03	0.11	0.01
1.6 MMBtu/hr capacity									0.03
pilot w/natural gas.									
#4: Thermal Oxidizer,	0.01	0.03	0.84	0.07	0.16	0.55	0.03	0.11	0.01
1.6 MMBtu/hr capacity									0.03
pilot w/natural gas.									
#5: Thermal Oxidizer,	0.01	0.03	0.84	0.07	0.16	0.55	0.03	0.11	0.01
1.6 MMBtu/hr capacity									0.03
pilot w/natural gas.									
TOTAL:	0.03	0.09	2.52	0.21	0.48	1.65	0.09	0.33	0.03
									0.09
12. Gas Station									
#1: Underground gasol-									
ine storage tank, one (1)									
12000 gal. capacity.									
#2: Phase I vapor reco-	3.81	0.04							
very, OPW Two Point									

List of Equipment and Emissions at SoCalGas La Goleta Plant

system.									
#3: One (1) gasoline dispensing cabinet with one (1) gasoline disp. nozzle.									
#4: Phase II vapor recovery system.									
<i>[Emissions from items 2-4 are listed against item #2]</i>									
TOTAL:	3.81	0.04							